

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,229 09/30/2003		09/30/2003	Yoshifumi Tokoyoda	XA-9943 1588	
181	7590	12/30/2004	EXAMINER		
MILES &	STOCKE	RIDGE PC	ASSAF, FAYEZ G		
1751 PINN	ACLE DRI	VE			
SUITE 500			ART UNIT	PAPER NUMBER	
MCLEAN,	VA 2210	2-3833	2872		

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

_					4000				
		Applic	ation No.	Applicant(s)					
		10/67	3,229	TOKOYODA ET AL	••				
Office Action Summary		Exami	ner	Art Unit					
		Fayez	G. Assaf	2872					
Period fe	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet with the	correspondence add	ress				
THE - External control	IORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN ensions of time may be available under the provisions or SIX (6) MONTHS from the mailing date of this come e period for reply specified above is less than thirty (3 D period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months led patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In n munication. 30) days, a reply within the tatutory period will apply ar y will, by statute, cause the	o event, however, may a reply be t statutory minimum of thirty (30) da nd will expire SIX (6) MONTHS from application to become ABANDON	imely filed ays will be considered timely. the mailing date of this cor ED (35 U.S.C. § 133).					
Status									
1)[Responsive to communication(s) file	ed on							
2a) <u></u>		2b)⊠ This action i	is non-final.						
3)									
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) 1-20 is/are pending in the	application.							
	4a) Of the above claim(s) is/a	are withdrawn from	consideration.						
5)[Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1,2,7-9 and 14-20</u> is/are re	jected.							
7)⊠	Claim(s) <u>3-6 and 10-13</u> is/are objected to.								
8)[Claim(s) are subject to restrict	ction and/or electio	n requirement.						
Applicat	ion Papers								
9)[The specification is objected to by th	ie Examiner.							
10)🖂	The drawing(s) filed on <u>30 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any obje	ection to the drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including	g the correction is red	quired if the drawing(s) is o	bjected to. See 37 CFI	R 1.121(d).				
11)	The oath or declaration is objected to	o by the Examiner.	Note the attached Offic	e Action or form PT0)-152 .				
Priority (under 35 U.S.C. § 119								
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have to documents have to documents have to of the priority documents.	peen received. peen received in Applica uments have been receiv	tion No	Stage				
* (See the attached detailed Office action	•	* **	red.					
		·							
Attachmen	• •								
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F	PTO-948\	4) Interview Summar Paper No(s)/Mail I						
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PNo(s)/Mail Date 9/30/03.			Patent Application (PTO-	152)				

Application/Control Number: 10/673,229 Page 1

Art Unit: 2872

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 7-9 and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimoto (JP 2002-048906) in view of Nakabayashi (US 2003/0112515 A1).

Fujimoto discloses a diffractive optical element comprising: a first diffractive element (2 of Fig. 4), a second diffractive (4 of Fig. 4) element that is made of a material different from the first diffractive element and is cemented with the first diffractive element, and a diffraction grating formed on the cemented surface (3 of Fig. 4), wherein the grating has a shade (7 of Fig. 4). Fujimoto discloses the claimed invention except for the shade being formed on a wall surface in each groove of the diffraction grating.

However Nakabayashi discloses such a shade (11 of Fig. 6C).

It would have been obvious, at the time the invention was made, to a person having ordinary skill in the art to adapt the method of forming the shade onto the wall surface of the grating in the invention of Fujimoto since the method of Nakabayashi is easier to perform.

Application/Control Number: 10/673,229 Page 2

Art Unit: 2872

The examiner notes that selection of well known optical materials does not serve as basis for patentability.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make use of the disclosed optical materials, since it have been held to be within the ordinary skill of worker in the art to select a known material on the basis of its suitability for the intended use. One would have been motivated to use glass, glass molding or resin for because of their suitability and durability.

Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945).

Allowable Subject Matter

Claims 3-6, and 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 3-6, and 10-13 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest

One of the two diffractive elements satisfying the following two conditional equations as set forth the claimed combination.

Conclusion

Application/Control Number: 10/673,229

Art Unit: 2872

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FA

12/27/04

FAYEZ G. ASSAF

Page 3